

Active Recombinant Mouse Tgfbr2 Protein (Ile24-Asp184), hFc-tagged

Cat. No. Tgfbr2-02M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant mouse TGF-beta RII (Ile24 - Asp184) Protein with a Mouse IgG2a (Glu98 - Lys330) Fc tag at C-terminus was expressed in Mouse myeloma cell line.

Species

Mouse

Source

NS0

ProteinLength

Ile24-Asp184

Description

Enables SMAD binding activity; transforming growth factor beta binding activity; and transforming growth factor beta-activated receptor activity. Involved in several processes, including animal organ development; circulatory system development; and positive regulation of epithelial to mesenchymal transition involved in endocardial cushion formation. Acts upstream of or within several processes, including animal organ development; cell surface receptor signaling pathway; and positive regulation of tolerance induction. Located in external side of plasma membrane. Is expressed in several structures, including alimentary system; central nervous system; early conceptus; embryo mesenchyme; and genitourinary system. Used to study DiGeorge syndrome; Loeys-Dietz syndrome; cleft soft palate; and prostate cancer. Human ortholog(s) of this gene implicated in Loeys-Dietz syndrome 2; Marfan syndrome; gastrointestinal system cancer (multiple); hereditary nonpolyposis colorectal cancer type 6; and pancreatic cancer. Orthologous to human TGFBR2 (transforming growth factor beta receptor 2).

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Form	Disulfide-linked homodimer
Bio-activity	Measured by its ability to inhibit TGF-beta 1 activity on HT-2 mouse T cells. The ED50 for this effect is 3-10 ng/mL in the presence of 1 ng/mL of rhTGF-beta 1.
Molecular Mass	Predicted Molecular Mass: 45.2 kDa (monomer) SDS-PAGE: 66 kDa, reducing conditions
N-terminal Sequence Analysis	Ile24
Endotoxin	<0.01 EU/μg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	Tgfr2 transforming growth factor, beta receptor II [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tgfr2

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Synonyms	Tgfr2; transforming growth factor, beta receptor II; DNIIR; RIIDN; TBR-II; TbetaRII; TbetaR-II; 1110020H15Rik; TGF-beta receptor type-2; TGF-beta receptor II; TGF-beta receptor type II; TGF-beta type II receptor; TGFR-2; transforming growth factor-beta receptor type II; EC 2.7.11.30
Gene ID	21813
mRNA Refseq	NM_009371
Protein Refseq	NP_033397
UniProt ID	Q62312

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